III. AMENDMENT TO THE CLAIMS

- 1. 19. (Cancelled).
- 20. (Currently Amended) An isolated polynucleotide native to the genus Corynebacterium, which is at least 90% identical to SEQ ID NO:1, wherein the polynucleotide encodes a protein having the activity of a histidine kinase.
- 21. (Currently Amended) An isolated polynucleotide native to the genus Corynebacterium, which is at least 95% identical to SEQ ID NO:1, wherein the polynucleotide encodes a protein having the activity of a histidine kinase.
- 22. (Previously Added) The isolated polynucleotide of claims 20 or 21, wherein said polynucleotide is native to the species Corynebacterium glutamicum.
- 23. (Allowed) An isolated polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:2.
- 24. (Allowed) The polynucleotide of claim 23, wherein said polynucleotide is a DNA.
- 25. (Allowed) The polynucleotide of claim 23, wherein said polynucleotide is a RNA.
- 26. (Allowed) An isolated polynucleotide comprising SEQ ID NO:1 nucleotides 342 to 1610.
 - 27. (Allowed) An isolated polynucleotide comprising SEQ ID NO:1.
- 28. (Allowed) An isolated polynucleotide consisting of SEQ ID NO:1 or a fragment thereof encoding a protein having the activity of a histidine kinase.
- 29. (Allowed) An isolated polynucleotide comprising the full complement of SEQ ID NO:1.

BATHE et al. - Application No. 09/824,551

- 30. (Currently Amended) An isolated polynucleotide which hybridizes under stringent conditions to SEQ ID NO:1 or the full complement thereof SEQ ID NO:1, wherein said stringent conditions comprise washing in 5X SSC at a temperature from 50 to 68°C and wherein said polynucleotide encodes a protein having the activity of a histidine kinase.
- 31. (Previously Added) The isolated polynucleotide of claim 30, wherein said polynucleotide is native to the genus Corynebacterium.
- 32. (Previously Added) The isolated polynucleotide of claim 30, wherein said polynucleotide is native to the species Corynebacterium glutamicum.
- 33. (Previously Added) A vector comprising the isolated polynucleotide of claims 20 or 21.
- 34. (Allowed) A vector comprising the isolated polynucleotide of claims 23, 26, 27, 28 or 29.
- 35. (Previously Added) A vector comprising the isolated polynucleotide of claim 30.
 - 36. (Allowed) A bacterium comprising the vector of claim 34.
- 37. (Allowed) The bacterium of claim 36, wherein said bacterium is of the species Escherichia coli or of the genus Corynebacterium.
- 38. (Currently Amended) An isolated polynucleotide consisting of at least 30 consecutive nucleotides selected from <u>SEQ ID NO: 1 or</u> the full complement of SEQ ID NO:1, wherein said polynucleotide is a probe in a hybridization reaction to detect or to isolate a polynucleotide encoding a protein having the activity of a histidine kinase.
 - 39. (Cancelled).
 - 40. (Previously Added) A bacterium comprising the vector of claim 33.

BATHE et al. - Application No. 09/824,551

- 41. (Previously Added) A bacterium comprising the vector of claim 35.
- 42. (Previously Added) The vector pCR2.11uxSint contained in the E. coli strain Top10/pCR2.11uxSint (DSM Accession No. 14082).